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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,862	04/15/2004	Husam N. Alshareef	TI 36557	7108
23494 7	590 06/13/2005		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999			WARREN, MATTHEW E	
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
·			2815	

DATE MAILED: 06/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		AK
	Application No.	Applicant(s)
	10/824,862	ALSHAREEF ET AL.
Office Action Summary	Examiner	Art Unit
	Matthew E. Warren	2815
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replevity No period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statuty any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	y be timely filed  30) days will be considered timely.  S from the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 15 A	A <i>pril 2004</i> .	
2a) This action is <b>FINAL</b> . 2b) This	s action is non-final.	
3) Since this application is in condition for allowa	ance except for formal matters	s, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>1-20</u> is/are pending in the application	١.	
4a) Of the above claim(s) is/are withdra	awn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-20</u> are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) acc		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	, -, -	•
The oath of declaration is objected to by the L		onice Action of form 1 10-132.
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea	its have been received. Its have been received in Apporting documents have been re	olication No
* See the attached detailed Office action for a list		ceived.
Coo the attached detailed Office deticit for a list	to. the continue copies not to	
Attachment(s)		
Notice of References Cited (PTO-892)	4) 🔲 Interview Sun	nmary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	Mail Date
<ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>	6) Notice of Info	rmal Patent Application (PTO-152)

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 17-20, drawn to a semiconductor device, classified in class 257, subclass 410.
- II. Claims 1-16, drawn to a method of making a semiconductor, classified in class 438, subclass 1+.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the gate dielectric could be formed including nitrogen by selective deposition instead of subjecting the gate dielectric to nitrogen under plasma conditions.

Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Applicant is reminded that upon the cancellation of claims to a non-elected

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invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew E. Warren whose telephone number is (571)

272-1737. The examiner can normally be reached on Mon-Thur and alternating Fri

9:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MEW

June 9, 2005

TOM THOMAS

SUPERVISORY PATENT EXAMINER